



The Ohio Council of Teachers of Mathematics
NEWSLETTER

March 2003

No. 75 + n

BRAHIER SHARES INITIATIVES DESIGNED TO BETTER SERVE EDUCATORS

Daniel J. Brahier, President

March... it's my favorite time of year to be a teacher. I have been with my classes long enough that they know exactly what I expect from them. By now, we have hit our stride and are making sense of mathematics. At the same time—as teachers—we focus on completing our tasks for the year while also trying to set some early goals for improvement in the next school year. Similarly, the Board of Directors of OCTM is winding down another fiscal year and making plans for the next.

In January, I reported that OCTM has a number of new initiatives in progress for 2003. Let me be a little more specific here and shed some light on the efforts of those on the board whom you have elected to represent you. Three projects are dominating my time and energy at the present: (a) a strategic planning process, (b) establishment of a new “look” to our web site, and (c) the institution of an affiliate grant program.

Last year, a special committee concluded that the organization was in need of a long-term strategic plan. The

board and I agreed and have begun this process. The 2003-2004 budget includes funding a consultant who will work with us through the next several months to determine a plan of action for OCTM. Our consultant is a strategic planning expert who has worked with other organizations and individuals. Approximately 20 OCTM members have been invited to serve on a committee this spring to examine all of our council's programs and suggest ideas for improvement. The work will result in a draft strategic plan, which will be reviewed by the board in September, revised, and completed by the fall of 2003. The final document will include a new mission statement for OCTM and a five-year, prioritized plan of action for improving the performance of our organization. This process is exciting and will allow us to prioritize, set goals, and do our best work for the membership.

For almost a year, the Electronic Communications Committee (ECC) has been working with the board to develop a new image for our web site.

The board is very proud of what our site has offered the membership in the past and took the suggestion of a planning subcommittee to revise the site. Since last summer, I have been working with the ECC and a web designer, who has systematically designed

This process is exciting and will allow us to... do our best work for the membership

mock-ups and skeletal pages for OCTM. When launched, the site will have the same address (www.ohioctm.org) but will have a new appearance and enhanced navigation tools. The board is particularly grateful to Stuart Wright, who has served tirelessly as our webmaster and has also been a member of the ECC as we have worked through the design of the new site. Recently, Stuart decided to retire as webmaster and has asked to be replaced. If you or another OCTM member you know has any interest in assisting with developing and maintaining the web site, please contact me directly—

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HUMAN RESOURCE DIRECTORY IS ON WEB SITE

Laura Anfang, Services Committee Chairperson

Is your affiliate or school looking for a presenter of current topics in the field of mathematics education? The mathematics education human resource directory is on the OCTM web site, <http://ohioctm.org>. Go to the site map and then to publications to find the directory. The resource lists topics, presenters' names, regions and email addresses. We have been receiving some positive feedback from those who have used the directory. However, due to typing errors or changes in email addresses, the site will be constantly updated. If you are a member of the directory, please check your email address and report any changes to Stuart Wright, stuartwright@worldnet.att.net.

OCTM is offering an opportunity to its local affiliates through the Emalou Brumfield Affiliates Grant. Six \$500 awards are available to affiliate groups for professional development in mathematics education. It is so easy to apply! Send a description of the event, its purpose, and predicted budget to OCTM's Services Chairperson, Laura Anfang, 8309 Fajrmount Rd. Novelty, OH 44072. The Greater Toledo Council of Teachers of Mathematics received a grant to support a mini-conference for teachers of mathematics. Read about their project in this newsletter.

GREATER TOLEDO IS AWARDED BRUMFIELD GRANT

Sarah Carver, Northwest District Director

On November 9, 2002, the Greater Toledo Council of Teachers of Mathematics held their fall conference at Perrysburg Junior High School. The OCTM Emalou Brumfield Affiliate Grant helped fund the event this year. Emalou Brumfield believed that OCTM and its local affiliates can provide outstanding professional development for their members. The \$500 grant promotes this type of leadership. Applications for the Emalou Brumfield Affiliate Grant are available from the Services Committee of the OCTM.

The Greater Toledo conference this year emphasized the NCTM *Principles and Standards*, the Ohio Content Standards, and the NCTM Navigation Series. The conference featured three sessions each at various grade levels (K-2, 3-5, 6-8, 9-12). Prior to the start of the sessions, participants enjoyed refreshments while networking with their colleagues. The first session began with a lively discussion of the similarities and differences of the NCTM *Principles and Standards* and the Ohio

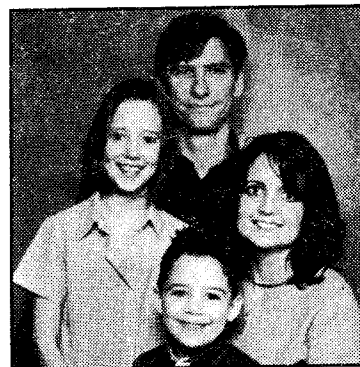
Academic Content Standards. The resources were examined both by content and organization. Connections were made between the Academic Content Standards and their relationship to the Ohio Graduation Test. The second and third sessions provided hands-on activities from the *Navigation Series of Algebra and Geometry*. For example, at the 6-8 grade level breakout session, the participants looked at the Building with Toothpicks Problem. The beauty of mathematics was revealed by how many different solutions to the problem were found. The idea of linear was discovered with the help of a bouncing tennis ball. Spatial sense was explored hands-on with blocks. Different views of each structure were built and investigated. Each Navigation session provided participants with activities and important discussions for the teaching of mathematics.

The conference ended with the completion of evaluations. Positive responses on the evaluations indicate the conference

was a success. Copies of the NCTM *Navigation Series* were made available to all. Thank you to all who participated on a Saturday to improve mathematics education in Ohio!

SCHOLARSHIP

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Michelle Forbes, South District Scholarship Winner

Michelle Forbes attended high school in Wenatchee, WA. She moved to Waverly, OH 13 years ago. Michelle's husband is from Ohio and he wanted to return to the area. She attends Shawnee State University and plans to teach in the Waverly / Piketon area. Michelle enjoys biking and swimming with their children, Tia and Jeffrey, Jr.

OCTM NEWSLETTER

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ORGANIZATIONS SERVE EDUCATORS IN OHIO

As Executive Director for two years, I have been able to attend some interesting meetings. I would like to tell you about some.

COPA, the Coalition of Professional Associations, was originally started by the Ohio Department of Education in order to discuss what the department was doing. The association leaders have found the discussion between the different groups is very valuable. We find that we have similar

problems and we like the interchange of ideas.

ORC, Ohio Resource Center for Mathematics, Science, and Reading, promotes best practices based upon national and state standards. Committees review web sites and only place those they evaluate as best practice on their web site. Their web site is <http://ohiorc.org>. Attending the ORC board meetings I have found how dedicated these people are to find the best materials for

teaching and to make their web site user-friendly.

Living in the northern Ohio area, I have attended Greater Cleveland and GAMES meetings. These are two very active affiliates. I know we have many other active affiliates and some that would like to be more active. See Laura Anfang's article on affiliate grants.

I am looking forward to starting my third year as Executive Director.

Continued from page 1

brahier@bgnnet.bgsu.edu. We hope to select a new webmaster very soon to continue the tradition of providing members a first-rate site.

Finally, the board considered it a priority this past year to initiate a local affiliate grant process. In the new fiscal budget, this area has now become institutionalized. Each year, up to six OCTM affiliates can apply for up to \$500 apiece to assist in running a professional development program. The application process is simple and should allow the local mathematics organizations to offer evening, weekend, and summer workshops and institutes, funded in part by OCTM. As our organization grows, the board believes it is important to allow funds to flow back to

your local affiliate. We urge you to contact the officers of your local affiliates and encourage them to request grant funds to make these programs available "close to home." We are also pleased to announce that this affiliate grant program memorializes Emalou Brumfield, a former president of OCTM who had a unique appreciation for the role of local meetings to enhance the professional development of teachers.

As you can see, the board is hard at work to offer OCTM members the support you deserve. We remain committed to long-term change and improvement so that, together, we can continue to provide the highest quality of mathematics instruction to our children.

If the OCTM board decides to make the newsletter available in PDF format (readable by Adobe Acrobat which is a free download)...

Would you like to receive the newsletter in that format?

Would you rather receive it as a paper newsletter?

Please email your comments to Jo Schiffbauer, the newsletter editor, at joschiff@aol.com.

PUZZLE CORNER ANSWERS

Answers:
Level One: 13, 16, 19
Level Two: 2x
Level Three: a) a = 1; b = 3
b) 666

Duane Bollenbacher's 15th Annual Summer Workshops

2003 SUMMER MATHEMATICS WORKSHOPS

at Bluffton College, Bluffton, Ohio

For each workshop (3 days in length) this is the possible credit that may be earned:

20 Contact Hours for LPDC Credit—Cost \$100 **OR**

1 Semester Hour Graduate Workshop Credit (Pass/Fail)—Cost \$215

(NOTE: Due to large amount of printed materials for each participant, please add \$15 to cost of HISTORY Workshop)

HISTORY OF MATHEMATICS FOR THE SECONDARY TEACHER, COURSE I

Monday – Wednesday, June 23 – 25, 2003

INSTRUCTOR: Debbie Patonai, Akron St. Vincent-St. Mary HS

ALGEBRA FOR THE SECONDARY TEACHER, COURSE 2

Monday – Wednesday, June 23-25, 2003

INSTRUCTOR: Duane Bollenbacher, Bluffton College

TEACHING MATHEMATICS IN THE MIDDLE SCHOOL, COURSE 1

Monday – Wednesday, August 4-6, 2003

INSTRUCTOR: Marilyn Link, recently retired from Coldwater Jr. and Sr. High

GRAPHING CALCULATOR FOR THE BEGINNER

Monday – Wednesday, August 4-6, 2003

INSTRUCTOR: Duane Bollenbacher, Bluffton College

(As per your request) ****NEW: **15TH ANNIVERSARY SPECIAL
ADVANCED AND ENRICHMENT TOPICS FOR SECONDARY TEACHERS**

Many of you former participants have OUTSTANDING IDEAS, ACTIVITIES, PROJECTS TO SHARE.

This workshop truly will be "BY TEACHERS FOR TEACHERS"

Wednesday-Friday, June 11-13, 2003

INSTRUCTOR: Duane Bollenbacher, Bluffton College

DISCOUNT: MY PERSONAL GIFT TO YOU:

\$10 OFF FOR EVERY SUMMER WORKSHOP YOU HAVE ATTENDED HERE

NOTES:

History of Mathematics for Secondary Teachers is a REPEAT of the previous HISTORY Workshops

Algebra, Course 2, is a REPEAT of the 1999 Workshop

Algebra Workshop, Course 1, is NOT a prerequisite for Course 2

Middle School Workshop, Course 1, is a REPEAT of the 1999 and 2001 Workshops

This may be taken AFTER Middle School Workshop, Course 2

Graphing Calculator for the Beginner is a REPEAT of the previous Calculator Workshops

These workshops are co-sponsored and/or partially funded by:

Bluffton College Mathematics Department

Bluffton College Office of Adult and Graduate Education

Bluffton College Master of Arts in Education Program

West Central Regional Professional Development Center

Ohio Council of Teachers of Mathematics

Brochures and registration forms are available in March. For further information or questions, contact:

Duane Bollenbacher, Bluffton College 607, Bluffton, OH 45817-1196
(W) 419-358-3415 (H) 419-358-7365 e-mail: bollenbacherd@bluffton.edu

BRIEF NEWS NOTES OF INTEREST...

Pi Day (3/14)

Duane Bollenbacher says, "for more information than you could possibly want about π , and maybe use it in your classroom, please go to www.joyofpi.com/pilinks.htm."

Affiliate Leaders

NCTM has planned five affiliate leaders conferences for 2003. If your local mathematics council is an affiliate of NCTM, plan to have your affiliate represented at one of these conferences. Since a minimum number of registrants is required for a conference to be held, please consider registering early. Note: The conference registration fee for the 2003 Affiliate Leaders Conference is \$30. The affiliate leaders conferences information and registration forms are available on the Online Affiliate Resource Center at <http://www.nctm.org>. Direct any questions or comments to affiliates@nctm.org or call (703) 620-9840 ext. 2104.

Achievement Test Committee Nominations

Work will begin shortly on the grade 3 assessment test and others will begin this summer. Nominations for serving on the committees for achievement tests for grades 3-8, including self-nominations, may be submitted. For more information, contact Anne Mikesell (Anne.Mikesell@ode.state.oh.us).

Governors Commission

The final report of the Governors Commission on Teaching Success is available in pdf format at: <http://www.teaching-success.org/>.

Westinghouse Competition in Mathematics, Science and Technology

Steven J. Byrnes, a senior at Roxbury Latin School in West Roxbury, MA, won the top prize in the individual category in this competition and a \$100,000 scholarship for his mathematics project, "Poset-Game Periodicity." His project analyzes Poset games which have potential applications in artificial intelligence and a wide range of computer network issues, such as the use of secure codes. For more information and a list of this year's awardees, visit <http://www.siemens-foundation.org>.

Excellence In Science, Technology, And Mathematics Education Week

Excellence in Science, Technology, and Mathematics Education (ESTME) week is March 16-22, 2003. The goal of ESTME week is to excite students about science, mathematics, and technology and to stimulate student interest in pursuing careers in these fields. For more information, visit www.ostp.gov/html/gstw.html.

Series Of Reports On Mathematics And Science Teaching Are Available Online

A series of reports based on a 2000 survey of nearly 6,000 mathematics and science teachers includes reports on teaching at the elementary, middle school, and high school levels. The survey was designed to reveal how well teachers are prepared in both content and pedagogy, what teachers are trying to accomplish, and the extent to which teachers support reform efforts. The series is available at <http://2000survey.horizon-research.com> (click on the Reports section).

Upcoming NCTM Meetings

NCTM Annual Meeting
San Antonio
April 9-12, 2003

NCTM Regional Meeting
Salt Lake City
October 2-4, 2003

NCTM Regional Meeting
Charleston
November 6-8, 2003

NCTM Regional Meeting
Edmonton, Alberta
November 20-22, 2003

NCTM Annual Meeting
Philadelphia
April 21-24, 2004

CONFERENCES SHOWCASE STANDARDS-BASED MATHEMATICS CURRICULA

The Greater Canton Council of Teachers of Mathematics, the K-12 Mathematics Curriculum Center, the Stark County Educational Service Center, and the East Region Professional Development Center are hosting *Considering New Mathematics Curricula* at the Marriott McKinley Grand Hotel, Canton, OH on April 3-4, 2003.

Considering New Mathematics Curricula is for teachers and administrators K-12 who want to learn about high-quality mathematics curriculum materials based on the NCTM *Principles and Standards* and programs that are considered "Exemplary and Promising Programs" by the U.S. Department of Education.

The seminar provides:

- presentations on 15 standards-based mathematics programs (5 elementary, 5 middle school, 5 high school), given by experienced classroom teachers;
- strategies for successfully implementing these materials;
- opportunities to discuss with your school district team the particular challenges you face in your mathematics program.

We recommend each school district send a team of three to six participants, a mix of teachers from different grade levels, curriculum coordinators, department chairs, or other administrators involved in mathematics curriculum decisions.

Programs featured include Everyday Mathematics (K-6); Investigations in Number, Data and Space (K-5); Math Trailblazers (K-5); Math Land (K-6);

and Number Power (K-6) for the elementary grades.

Middle school programs include Connected Mathematics in Context (5-8); MathScope: Seeing and Thinking Mathematically (6-8); MATH-Thematics (6-8); and University of Chicago School Mathematics Project (UCSMP) (7-12).

Contemporary Mathematics in Context (9-12); Interactive Mathematics Program (IMP) (9-12); Mathematics: Modeling Our World (9-12); Cognitive Tutor Algebra (9-11); and University of Chicago School Mathematics Project (UCSMP) (7-12) are available for the high school grades.

Phone Mike Bayer at 330.492.8136 ASAP if you are interested in attending.

The COMPASS and Show-Me Projects will co-host a National Curriculum Conference June 27-29, 2003 in Chicago, IL to showcase standards-based, NSF-supported mathematics curricula. High school curricula includes Mathematics: Modeling Our World, Contemporary Mathematics in Context, Interactive Mathematics Program, MATH Connections, and SIMMS Integrated Mathematics. Middle school curricula include MathThematics, Mathematics in Context, Connected Mathematics Project, and MathScope. The conference is intended for teachers, teacher leaders, administrators, state education department personnel, and teacher educators interested in improving middle and/or high school mathematics opportunities and experiences for students. The conference is especially for decision-makers in schools that are considering curriculum that incorporates the vision of mathematics set forth by the National Council of Teachers of Mathematics *Principles and Standards for School Mathematics* (NCTM 2000). The conference includes workshops on each curricula listed above (focused on initial awareness of the materials with sample activities and student achievement data), keynote sessions on topics related to transitions and articulation between middle and high school, exhibits of materials, and opportunities to interact with curriculum developers and expert teachers.

Registration of \$150 covers cost of all conference meals (except Saturday dinner) and materials. Participants are responsible for travel and lodging (reduced rates have been secured at the conference hotel). A registration form and preliminary conference agenda are available at the COMPASS and Show-Me web sites: <http://www.ithaca.edu/compass/> and <http://showmecenter.missouri.edu>. For questions, call 800-688-1829 or email compass@ithaca.edu. COMPASS Participation is limited to 300 people and registration is required by May 1, 2003. A registration form is available at: <http://www.ithaca.edu/compass> or <http://showmecenter.Missouri.edu/Showcase>. Questions? Phone 800.688.1829.

REDMOND WINS MYRTLE MILLER / MARIJANE WARNER AWARD



Tammy Redmond, 2002 Myrtle Miller / Marijane Warner Awardee

Tammy Redmond knew she wanted to be a teacher ever since she was asked by her kindergarten teacher; but she wasn't always sure she wanted to teach mathematics. Mathematics for Tammy wasn't always easy. Mathematics teachers like her high school teachers, Nancy Cooke and Robert DeMooy, and one of her Miami University professors, Johnny Hill, helped her to believe in herself just enough to instill in her that love for mathematics that she now passes along to others. She's made it her personal quest to find multiple ways to help children of all abilities learn to love mathematics as she does. Tammy has taught for twenty-one years, the first sixteen of those in a first-grade classroom and the last five in a first- and second-grade multiage classroom.

If children don't seem to be learning the way that she's teaching, she'll find a way that works for them. Children are encouraged to ask more questions, consider other options, make the "best" choices, and be on a constant quest for learning all that they possibly can each day. Daily jobs, games, problem-solving challenges, hands-on lessons, computer programs, peer instruction, mathematics toolkits, mathematics resource folders, acceptance of multiple strategies, mathematics journals, ongoing assessments, center activities, "Backity-Backpack" home kits, mathematics family nights, goal setting, Big Book Portfolios, and the belief that the mathematics curriculum her district has adopted is the very best, all make her classroom and its extension to each child's home wonderful mathematics environments. Her classroom is mathematics experience-rich, with a balance of challenges and celebrations every step of the way.

As a professional, Tammy feels it's her responsibility to share ideas with her colleagues. It's not just her students she wants to reach and

teach to love mathematics; it's all children and adults whom she can potentially effect and affect. Sharing through her mathematics and other curriculum area workshops, leadership roles, and the many resources that she has compiled are her ways of doing just that. She serves as OCTM's Elementary Vice-President, Hilliard City School's Mathematics Teacher Leader, Beacon Elementary's Co-technology Coordinator/Facilitator, an Everyday Math Consultant, an SDE Consultant, and Program Chairperson for the 2003 OCTM Conference.

Tammy feels that mathematics skills are sustaining life elements for day-to-day living. How we go about the teaching of those skills are many. Tammy believes "students will thrive on active participation, where their learning will become natural, spontaneous, and fun! It is an ever-changing world, and we, as educators, must be willing and able to be at the helm of those changes! If we are going to raise the expectations for our children, we must also raise the expectations for ourselves." She's happy that she's been able to challenge herself to do

just that in the area of mathematics and she will continue to do so.

She was "thrilled and overwhelmed to receive this award!"

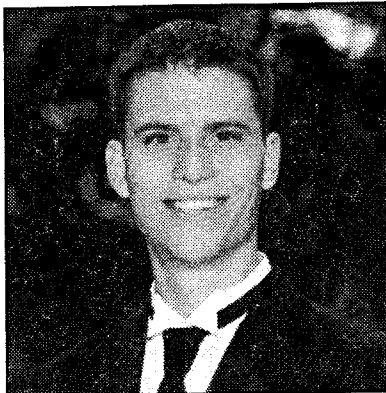
SCHOLARSHIP WINNERS

Erin Huffman, a senior at John Carroll University in University Heights was selected as a scholarship winner for the Northeast District.

Erin participates in several different groups at John Carroll. She is involved in Pi Lambda Theta, an honors fraternity for education majors and Phi Eta Sigma, a national honors fraternity. Erin is also Vice-president of Kappa Delta Gamma, a service sorority at John Carroll.

Joseph Hughes is an Integrated Mathematics Education major who plans to teach high school mathematics. A senior at Mount Vernon Nazarene University, Joseph would like to teach geometry and algebra. He also plans to coach and work with a local church youth group. Some of his hobbies include hunting, fishing, sports, and playing guitar.

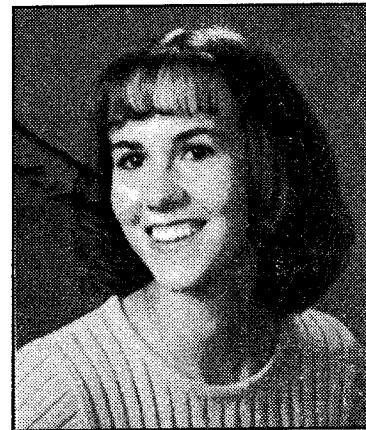
SCHOLARSHIP WINNERS



J. Jacob Tawney, Central District Scholarship Winner

J. Jacob Tawney is originally from Uniontown, Ohio, and a 1996 graduate of Lake High School. His interest in mathematics education stems largely from his pre-calculus teacher (and father), Mr. Jim Tawney. In 2000, "Jake" received a Bachelor of Science degree in mathematics and computer science from Denison University in Granville, OH, where he currently sits on the Board of Trustees. In 2001, Jake was awarded a Master of Science degree in mathematics from The Ohio State University. He is currently enrolled in the Mathematics Education Ph.D. program at Ohio State. Beginning in September, Jake will teach geometry and computer science at Upper Arlington High School in Columbus. In addition to completing his Ph.D., Jake has aspirations of going through the National Board Certification process. His main professional interest is the integration of mathematics with other disciplines, especially those disciplines not typically associated with mathematics, such as government, history, and art.

Erin Marie Besecker is from West Alexandria, OH where she graduated from Twin Valley High School in 1998. She is currently attending the University of Toledo and will graduate in December of this year. At college she is the vice-president of Kappa Delta Pi (an international honors society in education), is involved in Campus Crusade for Christ, Kids Club, First Saturday Volunteering, tutoring at King Elementary, the University Honors Program, and is on the President's List. After graduation she hopes to teach mathematics and social studies in an inner-city middle school and to establish an after-school tutoring program.



Erin Marie Besecker, Northwest District Scholarship Winner



Carla Tussey, Southwest District Scholarship Winner

Carla Tussey is from Batavia, OH, a suburb of Cincinnati. She attended Glen Este High School and is currently a senior at the College of Mount St. Joseph in Cincinnati, OH. Besides studying mathematics education, she will graduate with a minor in computer science and the computer literacy endorsement. While at the Mount, the past three years, Carla has worked in the Math Center of the Academic Performance Center as a peer tutor. In this position she has tutored all levels of mathematics and led statistics study groups. She also held the position of the Peer Tutor Coordinator in which she matched students with qualified peer tutors. Carla played two years of college volleyball and enjoys coaching club volleyball. Carla says that "coaching allows me to teach the athletes more than they can learn in a classroom." She is also the vice-president of the Math and Computer Science Club at the Mount and is looking forward to student teaching at Sycamore High School.

OCTM BOARD BULLETS FROM DECEMBER 2002

Ethel L. Briggs, Secretary

- Newsletter—Linda Taylor will be the new newsletter editor.
- Memorial Scholarship—The investments that funded the scholarships are now below the initial investment capital amount. John Baal moved that the memorial committee consider the idea of a memorial reception to be named after an Ohio mathematics educator and held for pre-service teachers at the annual conference, and that this reception will replace the memorial scholarships currently funded by OCTM. Linda Taylor seconded. Motion carried. Scholarship applications can be downloaded from the web site.
- Web Site Design—The committee has decided what should be on the front page and what topics/issues could be reached from there. The menu is keys on a calculator creating a fairly simple but attractive front page with major links from there.
- Strategic Planning—"What will we be doing three years, five years down the road?" Kay Wallace moved that we provide for the cost of strategic planning in the budget for next year. Linda Taylor seconded the motion. The motion carried.
- Conference Reports
- 2002—Cincinnati—Mary Rhein and Judy Gerwe reported that 804 members (new and renewal) joined, 211 of which were students. There were 1388 conference attendees, including speakers.
- 2003—Cleveland—The speaker forms are on the web site. The conference will be celebrating Ohio's 200th birthday and mathematics in Ohio.

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- 2004—Akron—No report.
- 2005—Dayton—Dayton will host the conference.
- 2006—Toledo—They have two possible sets of dates.
- Brochure Editor—It was recommended that the old dues cost of \$10 be crossed out on the brochures. The new fees are \$25 and will be in effect January 1, 2003.
- Constitution Committee—There are three recommendations to be considered by the Board:
Article 2, Section 3: The recommendation of the Constitution Committee is to retain retired dues at no cost for members who have maintained membership for (15 change to) 20 years.
Section 5: The Constitution Committee recommends that this section on Patron Life Membership be deleted.
By-laws: Article 3: Director at Large: add a sixth duty: "determine recipients of the annual teacher-of-the-year awards and present the awards at the annual conference. The Director at Large shall chair this project."
Donna Cooper moved to accept these recommendations and present them to the membership during the annual business meeting. Kay Wallace seconded. Motion carried. These recommended changes will be printed in the newsletter and then voted on during the annual conference in Cleveland.
- Journal—The journal costs will come in under budget. There is still a need for activities.
- Grant Committee: A copy of

the parent brochure and a cover letter went to every elementary principal. Several principals responded that the brochures came out at the right time to be handed out during parent-teacher conferences.

- OCTM Contest—The contest will be held the last Saturday in February and will be graded on the first Saturday in March.
- OMELC—The Spring Conference is Saturday, March 29, 9:15 to 3:00. Registration is requested by March 12.
- Generalist Endorsement—The generalist endorsement goes against NCATE Standards. The additional six hours would be only one more mathematics course and a methods course added to the minimal six hours required for any licensure. The OCTM Board needs to attend the hearings. Laura moved that OCTM support the concept of the OMSC letter and testify at the hear-

The Constitution Committee recommends... changes

ings in January. Iris seconded. Motion carried. The Ohio section of MAA will also respond to this issue.

- ORC—ORC is trying to place more mathematics on the site. They want to have 90% of the standards benchmarks and indicators online. They are addressing career tech and adult education through Standards Plus and they are working with the Centers of Excellence. E-OMAP, an online discussion of the OMAP,

Continued on page 11

NASA SCHOOLS ADDRESS LOCAL NEEDS

NASA and local school districts create NASA Explorer Schools which use NASA content and programs to address local needs in mathematics, science, and technology. The pilot in 2003 will focus on grades 5 through 8. A summer workshop at a NASA field center, stipends, graduate credit, and grants to the schools are all possible components of this experience.

Visit <http://explorerschools.nasa.gov> and/or <http://www.nsta.org/explorerschools> for more information. Applications are due by April 4, 2003.

Continued from page 10

will be on the site later.

- Curriculum Model—Anita Jones (ODE) reported that the project ended November 22. Preliminary reports are positive. Second pilot will be in January and will include a new set of lessons. The lessons are only a part of the curriculum model. They are working on the commentary for the planning and for the student samples and research that are also part of the curriculum model. OMAP will be piloted for grades 3-6 this summer in the same format as the upper level OMAP sessions.
- OGT—A new section on the OGT calculators is on the web site. Anne Mikesell (ODE) handed out a sampler of items for the OGT—they are good illustrations of what the OGT will look like. The reference

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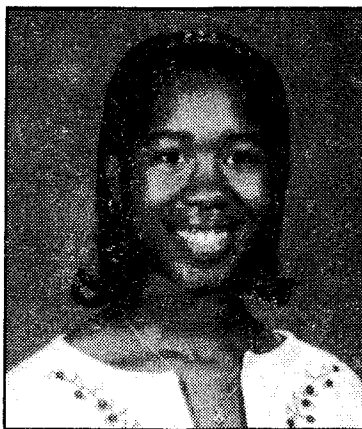
SCHOLARSHIP WINNERS

Teresa M. Brown grew up in the small town of Fairport Harbor where she attended school all her life. She will enter her senior year at Lake Erie College this upcoming fall. Teresa's major is in middle childhood education with concentrations in mathematics and language arts. After graduation, she hopes to find a teaching job in Lake County. As a teacher, she would like to coach volleyball. Teresa's hobbies and interests include drawing and creating artwork, playing volleyball, swimming, reading adolescent literature, and spending time with family and friends.



Teresa M. Brown, Northeast District Scholarship Winner

Siobhan Hatzlip graduated from Perry High School in Massillon, OH. She attends Baldwin-Wallace College in Berea, OH and will be a junior in the fall. Siobhan is majoring in early childhood education and plans to teach at an inner-city elementary school. In her spare time she likes to "hang out with her friends, play the piano, dance, and travel." She also has a part-time job as a dietary aide at Manor Care Nursing Home. During this past year, Siobhan was a big sister for Big Brothers/Big Sisters of Greater Cleveland. She will work for AmeriCorps this coming school year, helping out at teen centers.



Siobhan Hatzlip, Northeast District Scholarship Winner

sheet that will be used for the test can be used by teachers in instruction. There is also a web version of the sampler.

- Presidential Award Program—The application is to be on the web site. The Award Program changes include the award amounts and elementary and secondary awards alternating each year.

- Awards flyers—The applica-

tion form is on the OCTM web site and can be downloaded and printed. There is no nomination any more, only an application form. The Awards committee would like to name the new College Award for Kenneth Cummins if the Memorial Committee agrees. They also would like to name the regional awards for former OCTM mathematics educators.

OHIO COUNCIL OF TEACHERS OF MATHEMATICS



OCTM NEWSLETTER

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PUZZLE CORNER

Duane Bollenbacher

LEVEL ONE:

Complete this pattern: 1, 4, 7, 10, _____, _____, _____, _____

LEVEL TWO:

Given: $f(x) = \frac{x-1}{x}$. Find $f(f(2x))$

LEVEL THREE:

The number 666 is a simple sum and difference of the first three sixth powers: $666 = 1^6 - 2^6 + 3^6$ (Verify)

a) 666 can also be expressed in the following manner: $666 = 6^a + 6^a + 6^a + 6^b + 6^b$. Find a and b.

b) Find the sum of the squares of the first 7 primes.

Answers are inside the newsletter (upside down!).